



Figure 1

Mouse	MGGCEVREFLLQFGFFLPLLTAWTGDCHSVSN-QVVLDDTTVMGELGWKTYPLNGWDAI	59
Human	MGGCEVREFLLQFGFFLPLLTAWPGDCSHVSNQVVLDDTTVLGELGWKTYPLNGWDAI	60
	*****;*:***** *****;*****	
Mouse	TEMDEHNRPIHTYQVCNVMPEPNQNNWLRNWNISRDAAQKIYVEMKFTLRDCNSIPWVLGT	119
Human	TEMDEHNRPIHTYQVCNVMPEPNQNNWLRNWNISRDAAQKIYVEMKFTLRDCNSIPWVLGT	120
	*****	
Mouse	CKETFNLYIESDESHGTFKPSQYIKIDTIAADESFTQMDLGDRILKLNTEIREVGPIE	179
Human	CKETFNLFYMESDESHGTFKPNQYTKIDTIAADESFTQMDLGDRILKLNTEIREVGPIE	180
	*****;*:***** *****;*****	
Mouse	RKGFLYAFQDIGACIALVSVRVFYKCPFTVRSLAMFPDTPRVDSSSLVEVRGSCVKSA	239
Human	RKGFLYAFQDIGACIALVSVRVFYKCPFTVRNLMFPDTPRVDSSSLVEVRGSCVKSA	240
	*****;*****	
Mouse	EERDTPKLYCGADGDWLVLPLGRCICSTGYEEIEGSCHACRPGFYKAFAGNTKCSKCPPHS	299
Human	EERDTPKLYCGADGDWLVLPLGRCICSTGYEEIEGSCHACRPGFYKAFAGNTKCSKCPPHS	300
	*****	
Mouse	STYVEATSVCHCEKGYFRAEKDPPSMACRPPSAPRNVAFNINETALILEWSPPSDTGGR	359
Human	LTymeatsvcqcekyfRAEKDPPSMACRPPSAPRNVFVNINETALILEWSPPSDTGGR	360
	**;*****;*****;*****	
Mouse	KDLTYSVICKKCGLDTTQCEDCGGLRFIPRHTGLINNSVVVLDVSHVNYTFEIEAMNG	419
Human	KDLTYSVICKKCGLDTSQCEDCGGLRFIPRHTGLINNSVIVLDVSHVNYTFEIEAMNG	420
	*****;*****;*****;*****	
Mouse	VSELSISPKEFTAITVTTDHDAPSLIGMMRKDWASQNSLALSWQAPAFSNGAILDYETKY	479
Human	VSELSISPKEFTAITVTTDQDAPSLIGVVRKDWASQNSIALSWQAPAFSNGAILDYEIKY	480
	*****;*****;*****;*****	
Mouse	YEKEHEQLTYSSTRSKAPSVIVTGLKPATYIIFHIRVRTATGYSQKFEFETGDETS	539
Human	YEKEHEQLTYSSTRSKAPSVIITGLKPATKYVFHIRVRTATGYSQKFEFETGDETS	540
	*****;*****;*****;*****	
Mouse	MAAEQQQILVIATAAVGGFTLLVILTLFFLITGRCQWYIKAKMKSEEKRRTHLQNGHLRF	599
Human	MAAEQQQILVIATAAVGGFTLLVILTLFFLITGRCQWYIKAKMKSEEKRRNHLQNGHLRF	600
	*****;*****	
Mouse	PGIKTYIDPDITYEDPSLAVHEFAKEIDPSRIRIERVIGAGEFGEVCSGRLKTPGKREIPV	659
Human	PGIKTYIDPDITYEDPSLAVHEFAKEIDPSRIRIERVIGAGEFGEVCSGRLKTPGKREIPV	660
	*****	
Mouse	AIKTLKGGHMDRQRDFLEASIMGQFDHPNIIIRLEGVVTKRSPFAIGVEAFCPSPFLRAG	719
Human	AIKTLKGGHMDRQRDFLEASIMGQFDHPNIIIRLEGVVTKRSPFAIGVEAFCPSPFLRAG	720
	*****	
Mouse	FLNGIQAPHVPVTAGGSLPPRIAPGRPVMIVVEYMENGLSDSFLRKHDGHFTVIQLVGMLR	779
Human	FLNSIQAPHVPVPGGSLPPRIAPGRPVMIVVEYMENGLSDSFLRKHDGHFTVIQLVGMLR	780
	***;*****;*****	
Mouse	GIASGMKYLSDMGYVHRDLAARNILVNSNLVCKVSDFGLSRVLEDDPEAAAYTTGGKIPI	839
Human	GIASGMKYLSDMGYVHRDLAARNILVNSNLVCKVSDFGLSRVLEDDPEAAAYTTGGKIPI	840
	*****	
Mouse	RWTAPEAIAYRKFSASDAWSYGIVMWEVMSYGERPYWEMSNQDVILSIEEGYRLPAPMG	899
Human	RWTAPEAIAYRKFSASDAWSYGIVMWEVMSYGERPYWEMSNQDVILSIEEGYRLPAPMG	900
	*****	
Mouse	CPPSLQQLMLHCWQKERNHRPKFTDIVSFLDKLIRNPSALHTLVEDILVMPESPGDVPEY	959
Human	CPASLHQLMLHCWQKERNHRPKFTDIVSFLDKLIRNPSALHTLVEDILVMPESPGEVPEY	960
	**;*****;*****	
Mouse	PLFVTVDWLDLSIKMGQYKSNFMAAGFTTDFLISMSIDDIRRIGVILIGHQRRIVSSIQ	1019
Human	PLFVTVDWLDLSIKMGQYKNFVAAGFTTDFLISMSIDDIRRIGVILIGHQRRIVSSIQ	1020
	*****;*****	
Mouse	TLRLHMMHIQEKGFHV	1035
Human	TLRLHMMHIQEKGFHV	1036
	*****	

FIGURE 2





[illegible]



Human: 3483 gggaagtgttcacggacttaacctaaaaaaatttatcc--aggtggggcttccttagtga 3540  
||||| ||||| ||||| ||||| ||| | ||| ||| ||| ||| ||  
Mouse: 3678 gggaagtgttcacggacttcacctaaaggaatttgccttaagtgtggcatcttcagaga 3737  
  
Human: 3541 tgtatgtagagtgtgatggtagatgagaaagaactagttgacctttctttcatgttttgt 3600  
|| ||| ||||| ||||| ||||| ||||| || ||| ||| | ||||| ||||| |||||  
Mouse: 3738 cgtgtgtggagtttgatgatagataagaagaaaatagctgatcattcttccatgttttgt 3797  
  
Human: 3601 gatcaagtagct 3612  
|||| |||||  
Mouse: 3798 gatcgagtagct 3809

Figure 4

KSE132	MGGCEVREFLLQFGFFLPLLTAWPGDCSHVSNQVVLDDTTVLGELGWKTYPLNGWDAL	60
XM_035574	-----	
KSE132	TEMDEHNRPIHTYQVCNVMEPNQNNWLRNWNISRDAAQKIYVEMKFTLRDCNSIPWVLGT	120
XM_035574	-----	
KSE132	CKETFNLFYMEDESHEGKFKPNQYTKIDTIAADESFTQMDLGDRILKLNTEIREVGPIE	180
XM_035574	-----	
KSE132	RKGFYLAQDQIGACIALVSVRVFYKKCPFTVRNLAMFPDTPRVDSSSLVEVRGSCVKSA	240
XM_035574	-----	
KSE132	EERDTPKLYCGADGDLVPLGRCICSTGYEEIEGSCHACRPGFYKAFAGNTKCSKCPPHS	300
XM_035574	-----	
KSE132	LTYMEATSVCQCEKGYFRAEKDPPSMACRPPSAPRNVVFNINETALILEWSPPSDTGG	360
XM_035574	-----	
KSE132	KDLTYSVICKKCGLDTSQCEDCGGGLRFIPRHTGLINNSVIVLDFVSHVNYTFEIEAMNG	420
XM_035574	-----	
KSE132	VSELSFSPKFTAITVTDDQDAPSLIGVVVKDWASQNSIALSWQAPAFSNGAILDYEIKY	480
XM_035574	-----	
KSE132	YEKEHEQLTYSSTRSKAPSVIITGLKPKATKYVFHIRVRTATGYSGYSQKFEFETGDETS	540
XM_035574	-----MKXXXXXXXXXXXXXXXXXXXXSD 26 :: **	
KSE132	MAAEQGGILVIATAAVGGFTLLVILTLFFLITGRCQWYIKAKMKSEEKRRNHLQNGHLRF	600
XM_035574	MAAEQGGILVIATAAVGGFTLLVILTLFFLITGRCQWYIKAKMKSEEKRRNHLQNGHLRF 86 *****	
KSE132	PGIKTYIDPDYEDPSLAVHEFAKEIDPSRIRIERVIGAGEFGEVCSGRLKTPGKREIPV	660
XM_035574	PGIKTYIDPDYEDPSLAVHEFAKEIDPSRIRIERVIGAGEFGEVCSGRLKTPGKREIPV 146 *****	
KSE132	AIKTLKGGHMDRQRDFLEASIMGQFDHPNIIRLEGVVTKRSFPAIGVEAFCPNFLRAG	720
XM_035574	AIKTLKGGHMDRQRDFLEASIMGQFDHPNIIRLEGVVTKRSFPAIGVEAFCPNFLRAG 206 *****	
KSE132	FLNSIQAPHPVPGGSLPPRIAPGRPVMIIVVEYMENGLSDSLRKHGDGHTVIQLVGMLR	780
XM_035574	FLNSIQAPHPVPGGSLPPRIAPGRPVMIIVVEYMENGLSDSLRKHGDGHTVIQLVGMLR 266 *****	
KSE132	GIASGMKYLSDMGYVHRDLAARNILVNSNLVCKVSDFGLSRVLEDDPEAAAYTTGGKIPI	840
XM_035574	GIASGMKYLSDMGYVHRDLAARNILVNSNLVCKVSDFGLSRVLEDDPEAAAYTTD----- 321 *****	
KSE132	RWTAPEAIAYRKFSASDAWSYGIWMVEVMSYGERPYWEMSNQDVLSIEEGYRLPAPMG	900
XM_035574	-----LFQTLTLNLCYSA----- 334 *.: : .*	
KSE132	CPASLHQLMLHCWQKERNHRPKFTDIVSFLDKLIRNPSALHTLVEDILVMPESPGEVPEY	960
XM_035574	-----	
KSE132	PLFVTVGDWLDSIKMGQYKNNFVAAGFTTDFDLISRMSIDDIRRIGVILIGHQRRIVSSIQ	1020
XM_035574	-----	
KSE132	TLRLHMMHIQEKGFHV	1036
XM_035574	-----	